

ADVANCED DATA VISUALIZATION

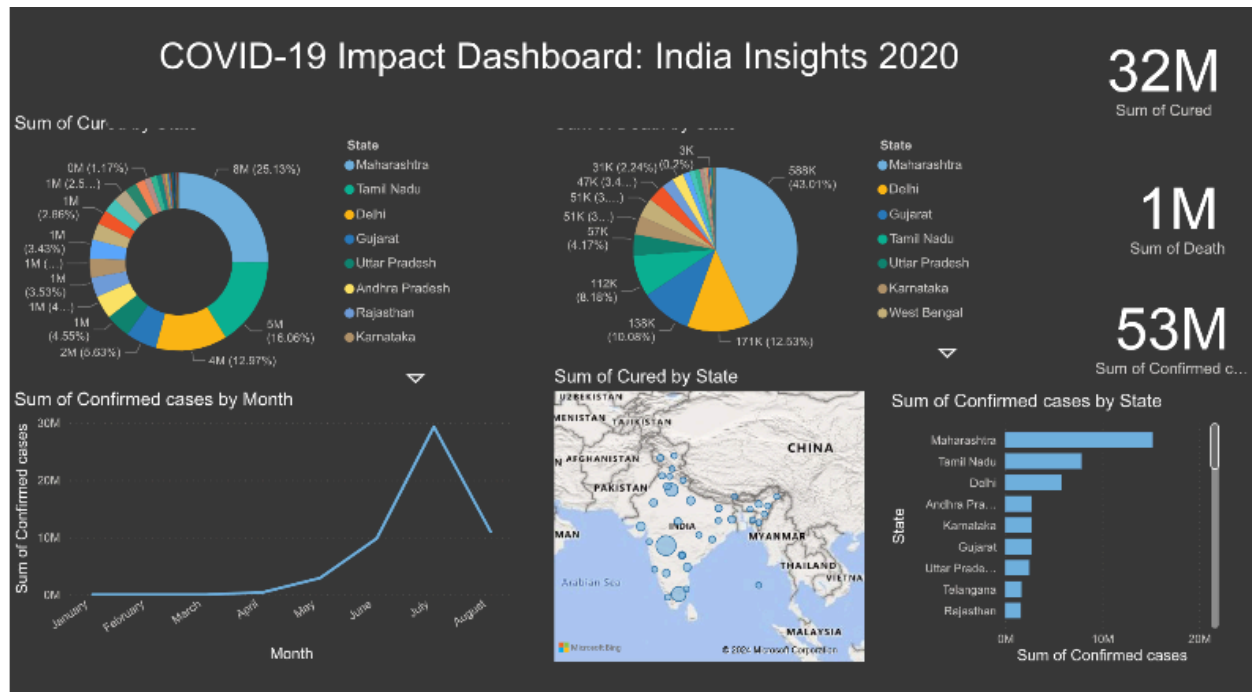
EXPERIMENT 3

NAME: Hrimkar Doshi

ROLL NO: 20217000021

BATCH: L

CSE - DS



Key Insights:

1. Total Cases and Outcomes:

- Confirmed Cases: 53 million
- Cured Cases: 32 million (approximately 60% recovery rate)
- Deaths: 1 million (approximately 1.9% mortality rate)

2. State-Wise Analysis:

- Maharashtra had the highest number of confirmed cases, followed by Tamil Nadu and Delhi.
- Maharashtra also leads in the number of cured cases, which correlates with its high case count.

3. Monthly Trend:

- The number of confirmed cases showed a sharp rise between May and August, indicating a significant outbreak during these months.

- After August, there appears to be a decline, potentially due to effective measures or natural decline.
- 4. **State Distribution:**
 - High concentration of cases in states like Maharashtra, Tamil Nadu, and Delhi.
 - Other notable states include Gujarat, Karnataka, Uttar Pradesh, and West Bengal.
- 5. **Geographical Spread:**
 - The map indicates a high density of cases in western and southern India.
 - Northern and northeastern regions seem less affected or reported fewer cases.
- 6. **Visual Observations:**
 - The bar graph confirms Maharashtra as a state with maximum confirmed cases.
 - Pie charts show the proportion of cases and cures by state, highlighting Maharashtra's dominance in both categories.

Conclusion:

The dashboard provides a comprehensive overview of the COVID-19 impact in India during 2020, showcasing critical state-wise and temporal trends. Maharashtra emerged as the most affected state, while the overall recovery rate was promising despite the high number of cases.